

CLAIM AMENDMENTS

1. - 13. (cancelled)

14. (original) A method for calibrating a smart resolution valve pressure control having a plurality of release times and a corresponding plurality of hold times said method comprising the additional steps of:

- a) applying a release pulse of one of a first predetermined duration of a selected one of said plurality of release times and applying a hold pulse of a second predetermined duration corresponding to said selected one of said plurality of release times to a valve controlling pressure to a brake cylinder initially having a minimum first predetermined pressure;
- b) measuring an elapsed time that said brake cylinder changes from a second predetermined pressure to a third predetermined pressure;
- c) increasing said first predetermined duration and decreasing said second predetermined duration if said elapsed time is greater than a first predetermined time, and decreasing said first predetermined duration and increasing said second predetermined duration if said elapsed time is less than a second predetermined time; and
- d) repeating steps (a) through (c) if said first predetermined duration changes in step (c).

15. (original) A method for calibrating a smart resolution valve pressure control, according to claim 14, wherein said method further includes:

- a) receiving a signal to apply said selected one of said plurality of release times and said corresponding hold time;
- b) determining if said selected one of said plurality of release times corresponds to a last preceding repetition of said smart resolution valve pressure control, and if so, continuing to apply said selected one of said release time and hold times.

16. (original) The method for calibrating a smart resolution pressure control, according to claim 15, wherein step (b) includes the step of resetting a stored release time and hold time in said smart resolution pressure control to a current release time if said current release time is different than that of said last preceding repetition and applying said current release time.

17. (original) A method for calibrating a smart resolution valve pressure control having a plurality of application times and a corresponding plurality of hold times said method comprising the steps of:

- a) applying an application pulse of a first predetermined duration of a selected one of said plurality of application times and applying a hold pulse of a second predetermined duration corresponding to said selected one of said plurality of application times to a valve controlling pressure to a brake cylinder initially having a maximum first predetermined pressure;
- b) measuring an elapsed time that said brake cylinder changes from a second predetermined pressure to a third predetermined pressure;

- c) increasing said first predetermined duration and decreasing said second predetermined duration if said elapsed time is greater than a first predetermined time, and decreasing said first predetermined duration and increasing said second predetermined duration if said elapsed time is less than a second predetermined time; and
- d) repeating steps (a) through (c) if said first predetermined duration changes in step (c).

18. (original) A method for calibrating a smart resolution valve pressure control, according to claim 17, wherein said method further includes:

- a) receiving a signal to apply said selected one of said plurality of application times and said corresponding hold time; and
- b) determining if said selected one of said plurality of application times corresponds to a last preceding repetition of said smart resolution valve pressure control, and if so, continuing to apply said selected one of said release times and hold times.

19. (original) The method for calibrating a smart resolution pressure control, according to claim 18, wherein step (b) includes the step of resetting a stored application time and hold time in said smart resolution pressure control to a current application time if said current application time is different than that of said last preceding repetition and applying said current application time.